Project Design Phase II
Technology Stack (Architecture & Stack)

Team ID	PNT2022TMID34246
Project Name	Inventory Management System for retailers

Technical Architecture:
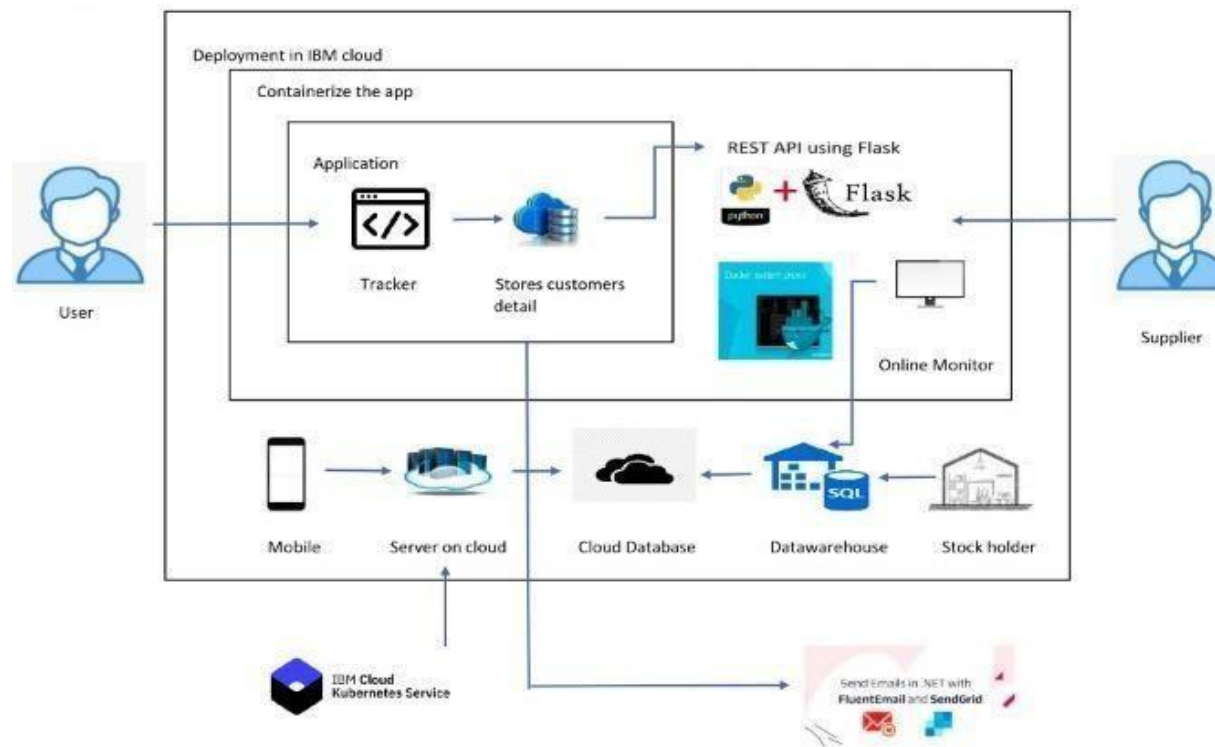
Table 1: Components & Technologies:

S. NO	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS. JavaScript
2.	Application Logic	Logic for process in the application	Python, Flask
3.	Database	Datatype, Configurations etc.	DB2
4.	Cloud Databases	Database Service on cloud	IBM DB2
5.	File Storage	File Storage requirements.	IBM Object Storage
6.	Indications	Receive an indications when an item trying to buy is too much than the stock available.	Send grid.
7.	Infrastructure (Server/Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.
8.	Location	Can be able to see items from a particular store location.	Python, Flask

Table 2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The technologies listed are used for open-source	HTML, CSS, JS, Python Flask.
2.	Security Implementations	User login and authorization are done to implement the security access.	IBM cloud security.
3.	Scalable Architecture	The architecture is possible because of virtualization.	Docker, Kubernetes.
4.	Availability	The System availability is made sure.	IBM DB2
5.	Performance	The access and response time is much faster	Python Flask, Docker, DB2.